


Form PTO-1449	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DKT. NO. 501.33745CX4	SERIAL NO. 10/686,584
 <p>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p>(Use several sheets if necessary)</p>		APPLICANT Shunji MAEDA <i>et al.</i>	
		FILING DATE 17 October 2003	GROUP 2877

## U.S. PATENT DOCUMENTS

Ex. Initial	Doc. No.	Date	Name	Class	Subclass	Filing Date
HP	AA	4,692,690	09/08/1987	Hara <i>et al.</i>		
HP	AB	4,816,686	03/28/1989	Hara <i>et al.</i>		
HP	AC	4,999,510	03/12/1991	Hayano <i>et al.</i>		
HP	AD	5,162,867	11/10/1992	Kohno		
HP	AE	5,459,794	10/17/1995	Ninomiya <i>et al.</i>		
	AF					
	AG					
	AH					

## U.S. PATENT APPLICATIONS

	Application Number	Name	Publication Date
AI			
AJ			
AK		<i>none</i>	
AL			

## FOREIGN PATENT DOCUMENTS

	Doc. No.	Date	Country	Class	Subclass	Translation/Abstract	
						Yes	No
HP	AM	63-055455 A	03/09/1988	JP		Abstract	
	AN						
	AO						
	AP						
	AQ						
	AR						
	AS						
	AT						

## OTHER DOCUMENTS

AU	
AV	
AW	<i>none</i>
AX	
Examiner	Date Considered
<i>[Signature]</i>	3/16/06